

## PATENT ABSTRACTS OF JAPAN

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(71)Applicant : ASAHI CHEM IND CO LTD

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(72)Inventor : UEDA SHIGERU  
TAKAHASHI MAMORU  
MISAKI HIDEO**(54) METHOD AND COMPOSITION FOR DETERMINING D-GLYCEROALDEHYDE-3-PHOSPHORIC ACID, INORGANIC PHOSPHORUS, OR 1,3-DIPHOSPHOGLYCERIC ACID IN HIGH SENSITIVITY****(57)Abstract:**

**PURPOSE:** To simply determine the subject compound in high sensitivity and in high precision by employing a reagent comprising a glyceroaldehyde-3- phosphoric acid dehydrogenase and two kinds of specific coenzymes.

**CONSTITUTION:** A specimen containing D-glyceroaldehyde-3-phosphoric acid (GAP), inorganic phosphorus and 1,3-disphosphoglyceric acid (DGA) is treated with a reagent containing (A) a thionicotine amide adenine dinucleotide (phosphate) [thio NAD(P)] and NAD(P) as coenzymes and a GAP dehydrogenase catalyzing a reverse reaction producing DGA from GAP and the inorganic phosphorus, (B) the (thio) NAD(P), and (C) reduction type NAD(P) when the component B is the thio NAD(P), or reduction type thio NAD(P) when the component B is the NAD(P), to subject the specimen to a cyclic reaction of the reaction formula (A1, B1, A2 and B2 are each the reduction product of B1, C, A1 and B1, respectively), followed by measuring the conversion of A2 or B1.

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